

## SERIES 19

2" Diameter, 15 Amp

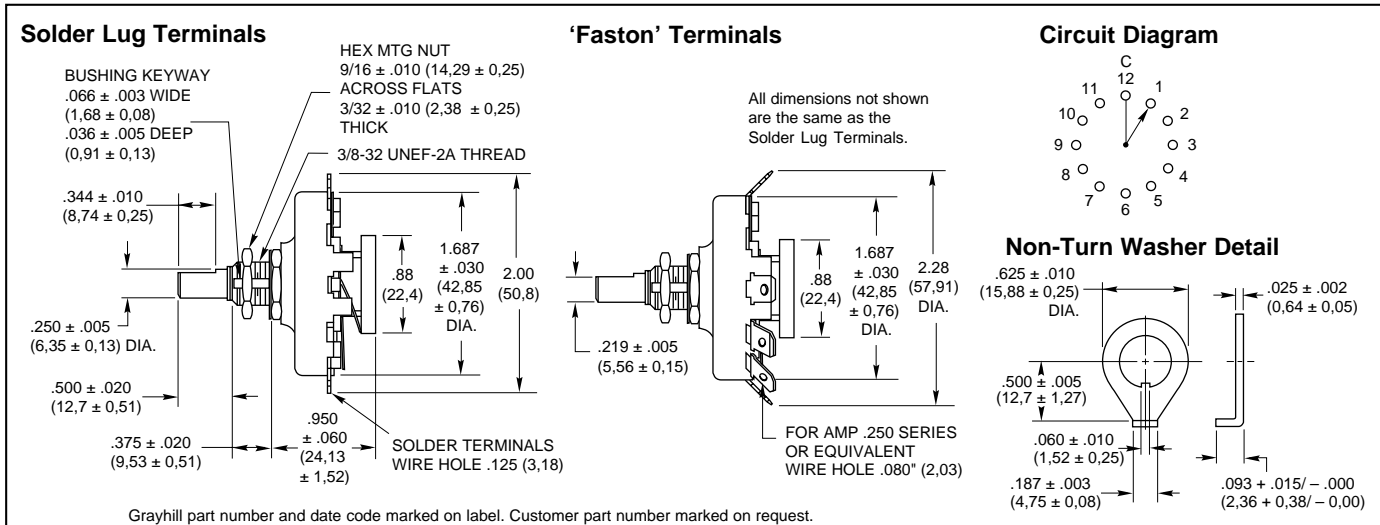


### FEATURES

- UL Recognized
- Rugged Construction
- Choice of Termination



### DIMENSIONS In inches (and millimeters)



### SPECIFICATIONS

#### Electrical Rating

**Rated:** UL Recognition: File Number E35289  
 15 Amps, 120 Vac, non-inductive load.  
 One Amp, 120 Vdc, non-inductive load.  
 Additional Grayhill Rating: 7.5 Amps, 220 Vac,  
 non-inductive load.

This rating is based on the following criteria:  
 Overload—50 operations at 125% rated ac load  
 and 150% rated DC load.

Endurance—6000 operations at rated load with  
 900 Vac dielectric strength before and after test.  
 Temperature Rise—Not to exceed 30°C when  
 carrying rated ac load after endurance test.  
 Contacts will carry 20 Amps at 115 volts AC with  
 30°C maximum temperature rise.

**Contact Resistance:** (Measured at 2 Vdc and  
 approximately 100 mA) for new switch  
 approximately 10 milliohms.

**Insulation Resistance:** Approximately 100,000  
 Mohms. Between mutually insulated parts.

**Voltage Breakdown:** Approximately 2500 Vac  
 between mutually insulated parts.

#### Materials and Finishes

**Rotor Contact:** Silver alloy

**Stator Contact:** Silver alloy

**Shaft:** 303 Stainless steel

**Stop Rivet:** Steel, cadmium-plated

**Mounting Bushing:** Brass, cadmium-plated

**Base and Drive Hub:** Heat resistant, electrical  
 grade phenolic.

**Detent Mechanism:** Brass, silver-plated

**'Faston' Terminal:** Brass, silver-plated

**Solder Terminal:** Brass, silver-plated

**Mounting Hardware:** One mounting nut  $9/16$ "  
 across flats,  $3/32$ " thick and one non-turn washer  
 (see detail) are supplied with each switch.

#### Additional Characteristics

**Single Pole, Single Deck:** 2 to 11 positions  
 plus common 30° Indexing.

**Contacts:** Non-shorting type

**Stops:** A rivet provides the fixed stop on all  
 switches. Minimum number of positions is 2,  
 and maximum is 11. Terminal 12, the common,  
 is isolated from rotation.

**Rotational Torque:** 30 to 75 ounce-inches on  
 a new switch. Approximately 22 ounce-inches  
 after 25,000 cycles of operation.

**Contact Force:** Approximately 12 ounces

#### ACCESSORIES

##### Screw Terminal Adapter

Spring loaded, plug-in adapters for 'Faston'  
 Terminals provide excellent mechanical fit and  
 electrical contact. Adapter material is brass tin-  
 plated. The terminal adapters are available with  
 a 6-32 thread (-1) or 8-32 thread (-2). A  
 $1/4$ " panhead screw is provided as part of  
 the adapter.

Part No. SC906-1 .....6-32 Thread

Part No. SC906-2 .....8-32 Thread



#### Non-Turn Washer

Brass, cadmium-plated washer, detailed above  
 may be purchased as a separate item.  
 Part No. 19C1014.

#### Control Knobs

See page I-57.

#### ORDERING INFORMATION

Part Numbers: Designate as follows, using the  
 2 digits after the dash to indicate the number of  
 positions.

**For Faston Terminal:**

Use 19101-02UL through 19101-11UL

**For Solder Terminal:**

Use 19001-02UL through 19001-11UL

**Specials:** Not available through Distributors.  
 For special shafts, bushings, etc. contact Grayhill.

**Available from your local Grayhill  
 Distributor.** For prices and discounts, contact  
 a local Sales Office, an authorized local  
 Distributor or Grayhill.